MPI RESEARCH
3058 Research Drive
State College, Pennsylvania 16801 USA
Telephone: 814.272.1039
Fax: 814.272.1019

Report of Analysis

Fluorochemical Characterization of Aqueous Samples

Project Name: P0005086

MPI Research Laboratory Report No. L0018819, L0018860, L0018869, L0018932

Initial Report Date: 11/10/09

Revision Report Date: 11/16/09

Testing Laboratory

MPI Research, Inc.
3058 Research Drive
State College, PA 16801

Requester

Blair D. Burgess, Jr.
AECOM Inc.
2809 West Mall Drive
Florence, AL 35630
Phone: 256-740-2382

MPI RESEARCH
3058 Research Drive
State College, Pennsylvania 16801 USA
Telephone: 814.272.1039
Fax: 814.272.1019

Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08130935 LW 12-5/LW 12-6 Sample 1

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1,2]	0.025	09/11/09
PFOS- Perfluorooctanesulfonate	0.0120[1,4]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[3,4]	0.010	09/11/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025[5]	0.025	09/29/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/29/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/29/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/29/09

[1] The Low Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[2] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[3] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[4] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[5] The Laboratory Matrix Spike recovery was outside the acceptance criteria of 70-130%.

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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08130935 LW 12-5/LW 12-6 Sample 1 Dup

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1,2]	0.025	09/11/09
PFOS- Perfluorooctanesulfonate	< 0.010[1,4]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[3,4]	0.010	09/11/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025[5]	0.025	09/29/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/29/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/29/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/29/09

[1] The Low Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[2] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[3] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[4] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[5] The Laboratory Matrix Spike recovery was outside the acceptance criteria of 70-130%.

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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08130936 LW 12-5/LW 12-6 Sample 2

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1]	0.025	09/11/09
PFOS- Perfluorooctanesulfonate	< 0.010[3]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[2,3]	0.010	09/11/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/29/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/29/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/29/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/29/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[3] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08130936 LW 12-5/LW 12-6 Sample 2 Dup

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1]	0.025	09/11/09
PFOS- Perfluorooctanesulfonate	< 0.010[3]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[2,3]	0.010	09/11/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/29/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/29/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/29/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/29/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[3] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08130938 LW 12-5/LW 12-6 Sample 3

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1,2]	0.025	09/11/09
PFOS- Perfluorooctanesulfonate	0.0126[1,3]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[4,5]	0.010	09/11/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/29/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/29/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/29/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/29/09

[1] The Low Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[2] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[3] The High Field Matrix recovery was outside the QC acceptance criteria of 50-150%. The Low Field Matrix recovery was within the acceptance criteria of 50-150% and the spiking concentration is within the Exhibit C criteria of 0.5 to 10 times endogenous sample levels, this data is considered reportable.

[4] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[5] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08130938 LW 12-5/LW 12-6 Sample 3 Dup

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1,2]	0.025	09/11/09
PFOS- Perfluorooctanesulfonate	< 0.010[1,3]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[4,5]	0.010	09/11/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/29/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/29/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/29/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/29/09

[1] The Low Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[2] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[3] The High Field Matrix recovery was outside the QC acceptance criteria of 50-150%. The Low Field Matrix recovery was within the acceptance criteria of 50-150% and the spiking concentration is within the Exhibit C criteria of 0.5 to 10 times endogenous sample levels, this data is considered reportable.

[4] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[5] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08130933 MG 17-3 Sample 4

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1]	0.025	09/11/09
PFOS- Perfluorooctanesulfonate	< 0.010[3]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[2,3]	0.010	09/11/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[3] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

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State College, Pennsylvania 16801 USA
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Fax: 814.272.1019

Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08130933 MG 17-3 Sample 4 Dup

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1]	0.025	09/11/09
PFOS- Perfluorooctanesulfonate	< 0.010[3]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[2,3]	0.010	09/11/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[3] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08130932 MG 17-3 Sample 5

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1]	0.025	09/12/09
PFOS- Perfluorooctanesulfonate	0.0173[3,5]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[2,4]	0.010	09/12/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[3] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[4] The High Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[5] Outside the QC acceptance criteria of <20% relative percent difference (RPD) of duplicate samples

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State College, Pennsylvania 16801 USA
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Fax: 814.272.1019

Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08130932 MG 17-3 Sample 5 Dup

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1]	0.025	09/12/09
PFOS- Perfluorooctanesulfonate	0.0116[3,5]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[2,4]	0.010	09/12/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[3] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[4] The High Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[5] Outside the QC acceptance criteria of <20% relative percent difference (RPD) of duplicate samples

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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08180951 MG11 Sample 6

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[2]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	0.0185[1,5,6]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[3,4]	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The Low Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[2] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[3] The High Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[4] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[5] Outside the QC acceptance criteria of <20% relative percent difference (RPD) of duplicate samples

[6] The High Field Matrix recovery was outside the QC acceptance criteria of 50-150%. The Low Field Matrix recovery was within the acceptance criteria of 50-150% and the spiking concentration is within the Exhibit C criteria of 0.5 to 10 times endogenous sample levels, this data is considered reportable.

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State College, Pennsylvania 16801 USA
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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08180951 MG11 Sample 6 Dup

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[2]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	0.0105[1,5,6]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[3,4]	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The Low Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[2] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[3] The High Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[4] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[5] Outside the QC acceptance criteria of <20% relative percent difference (RPD) of duplicate samples

[6] The High Field Matrix recovery was outside the QC acceptance criteria of 50-150%. The Low Field Matrix recovery was within the acceptance criteria of 50-150% and the spiking concentration is within the Exhibit C criteria of 0.5 to 10 times endogenous sample levels, this data is considered reportable.

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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08180948 MG11 Sample 7

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	0.0215[4]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[2,3]	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The High Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[3] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[4] The High Field Matrix recovery was outside the QC acceptance criteria of 50-150%. The Low Field Matrix recovery was within the acceptance criteria of 50-150% and the spiking concentration is within the Exhibit C criteria of 0.5 to 10 times endogenous sample levels, this data is considered reportable.

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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08180948 MG11 Sample 7 Dup

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	0.0278[1]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	0.0196[4]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[2,3]	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The High Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[3] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[4] The High Field Matrix recovery was outside the QC acceptance criteria of 50-150%. The Low Field Matrix recovery was within the acceptance criteria of 50-150% and the spiking concentration is within the Exhibit C criteria of 0.5 to 10 times endogenous sample levels, this data is considered reportable.

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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08140928 LW 17-4/LW 17-5 Sample 8

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1,2]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	0.0144[1,5]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[3,4]	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The Low Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[2] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[3] The High Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[4] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[5] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08140928 LW 17-4/LW 17-5 Sample 8 Dup

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1,2]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	< 0.010[1,5]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[3,4]	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The Low Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[2] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[3] The High Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[4] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[5] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

MPI RESEARCH
3058 Research Drive
State College, Pennsylvania 16801 USA
Telephone: 814.272.1039
Fax: 814.272.1019

Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08180949 MG11 Sample 9

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[2,4]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	0.0197[1,4]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[3,4]	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The Low Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[2] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[3] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[4] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

MPI RESEARCH
3058 Research Drive
State College, Pennsylvania 16801 USA
Telephone: 814.272.1039
Fax: 814.272.1019

Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08180949 MG11 Sample 9 Dup

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[2,4]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	0.0215[1,4]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[3,4]	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The Low Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[2] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[3] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[4] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

MPI RESEARCH
3058 Research Drive
State College, Pennsylvania 16801 USA
Telephone: 814.272.1039
Fax: 814.272.1019

Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08190950 MG11 Sample 10

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1,4]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	0.0446[2,3,5]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[3,4]	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The High Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[3] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[4] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[5] Outside the QC acceptance criteria of <20% relative percent difference (RPD) of duplicate samples

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3058 Research Drive
State College, Pennsylvania 16801 USA
Telephone: 814.272.1039
Fax: 814.272.1019

Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08190950 MG11 Sample 10 Dup

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1,4]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	0.0265[2,3,5]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[3,4]	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The High Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[3] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[4] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[5] Outside the QC acceptance criteria of <20% relative percent difference (RPD) of duplicate samples

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3058 Research Drive
State College, Pennsylvania 16801 USA
Telephone: 814.272.1039
Fax: 814.272.1019

Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08190945 LW13-16/LW13-19 Sample 12

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	0.0610[1,2,5]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	0.0677[2,3,5]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[2,3]	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025[4]	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[3] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[4] The Labortory Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[5] Outside the QC acceptance criteria of <20% relative percent difference (RPD) of duplicate samples

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3058 Research Drive
State College, Pennsylvania 16801 USA
Telephone: 814.272.1039
Fax: 814.272.1019

Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 08190945 LW13-16/LW13-19 Sample 12 Dup

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	0.0433[1,2,5]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	0.0440[2,3,5]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[2,3]	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025[4]	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[3] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[4] The Labortory Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[5] Outside the QC acceptance criteria of <20% relative percent difference (RPD) of duplicate samples

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3058 Research Drive
State College, Pennsylvania 16801 USA
Telephone: 814.272.1039
Fax: 814.272.1019

Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 1-CR388-0828-09 Sample 13

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1,4]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	0.0526[4]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[2,3]	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The High Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[3] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[4] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

MPI RESEARCH
3058 Research Drive
State College, Pennsylvania 16801 USA
Telephone: 814.272.1039
Fax: 814.272.1019

Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: 1-CR388-0828-09 Sample 13 Dup

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1,4]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	0.0487[4]	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010[2,3]	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The High Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[3] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[4] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

MPI RESEARCH
3058 Research Drive
State College, Pennsylvania 16801 USA
Telephone: 814.272.1039
Fax: 814.272.1019

Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: Trip Blank 081309

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	< 0.025[1]	0.025	09/15/09
PFOS- Perfluorooctanesulfonate	< 0.010	0.010	10/09/09
FOSA- Perfluorooctane sulfonamide	< 0.010	0.010	09/15/09
MeFOSAA- N-methylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
EtFOSAA- N-ethylperfluoro-1-octanesulfonamidoacetic Acid	< 0.025	0.025	09/30/09
MeFOSE- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09
EtFOSE- 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	< 0.025	0.025	09/30/09

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

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3058 Research Drive
State College, Pennsylvania 16801 USA
Telephone: 814.272.1039
Fax: 814.272.1019

Analytical Report

Summary of Fluorochemical Residues in Water Samples by LC/MS/MS

Sample ID	PFOA Perfluorooctanoic Acid Analyte Found (ng/mL)	PFOS Perfluorooctanesulfonate Analyte Found (ng/mL)	FOSA Perfluorooctanesulphonamide Analyte Found (ng/mL)
08130935 LW 12-5/LW 12-6 Sample 1	< 0.025[1,2]	0.0120[2,3]	< 0.010[3,4]
08130935 LW 12-5/LW 12-6 Sample 1 Dup	< 0.025[1,2]	< 0.010[2,3]	< 0.010[3,4]
08130936 LW 12-5/LW 12-6 Sample 2	< 0.025[1]	< 0.010[3]	< 0.010[3,4]
08130936 LW 12-5/LW 12-6 Sample 2 Dup	< 0.025[1]	< 0.010[3]	< 0.010[3,4]
08130938 LW 12-5/LW 12-6 Sample 3	< 0.025[1,2]	0.0126[4,6]	< 0.010[3,4]
08130938 LW 12-5/LW 12-6 Sample 3 Dup	< 0.025[1,2]	< 0.010[3,6]	< 0.010[3,4]
08130933 MG 17-3 Sample 4	< 0.025[1]	< 0.010[3]	< 0.010[3,4]
08130933 MG 17-3 Sample 4 Dup	< 0.025[1]	< 0.010[3]	< 0.010[3,4]
08130932 MG 17-3 Sample 5	< 0.025[1]	0.0173[3,7]	< 0.010[5]
08130932 MG 17-3 Sample 5 Dup	< 0.025[1]	0.0116[3,7]	< 0.010[5]
Trip Blank 081309	< 0.025[1]	< 0.010	< 0.010
08180951 MG11 Sample 6	< 0.025[1]	0.0185[2,6,7]	< 0.010[5]
08180951 MG11 Sample 6 Dup	< 0.025[1]	0.0105[2,6,7]	< 0.010[5]
08180948 MG11 Sample 7	< 0.025[1]	0.0215[6]	< 0.010[5]
08180948 MG11 Sample 7 Dup	0.0278[1]	0.0196[6]	< 0.010[5]
08140928 LW 17-4/LW 17-5 Sample 8	< 0.025[1,2]	0.0144[2,3]	< 0.010[5]
08140928 LW 17-4/LW 17-5 Sample 8 Dup	< 0.025[1,2]	< 0.010[2,3]	< 0.010[5]
08180949 MG11 Sample 9	< 0.025[1,3]	0.0197[2,3]	< 0.010[3,4]
08180949 MG11 Sample 9 Dup	< 0.025[1,3]	0.0215[2,3]	< 0.010[3,4]
08190950 MG11 Sample 10	< 0.025[1,3]	0.0446[5,7]	< 0.010[3,4]
08190950 MG11 Sample 10 Dup	< 0.025[1,3]	0.0265[5,7]	< 0.010[3,4]
08190945 LW13-16/LW 13-19 Sample 12	0.0610[3,4,7]	0.0677[3,4,7]	< 0.010[3,4]
08190945 LW13-16/LW 13-19 Sample 12 Dup	0.0433[3,4,7]	0.0440[3,4,7]	< 0.010[3,4]
1-CR388-0828-09 Sample 13	< 0.025[1,3]	0.0526[3]	< 0.010[5]
1-CR388-0828-09 Sample 13 Dup	< 0.025[1,3]	0.0487[3]	< 0.010[5]

[1] The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

[2] The Low Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[3] The High Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.

[4] The Low Field Matrix Spike recovery was outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[5] The High and Low Field Matrix Spike recovery were outside the QC acceptance criteria of 50-150%, therefore the data is considered not reportable.

[6] The High Field Matrix recovery was outside the QC acceptance criteria of 50-150%. The Low Field Matrix recovery was within the acceptance criteria of 50-150% and the spiking concentration is within the Exhibit C criteria of 0.5 to 10 times endogenous sample levels, this data is considered reportable.

[7] Outside the QC acceptance criteria of < 20% relative percent difference (RPD) of duplicate samples

MPI RESEARCH
3058 Research Drive
State College, Pennsylvania 16801 USA
Telephone: 814.272.1039
Fax: 814.272.1019

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Summary of Fluorochemical Residues in Water Samples by LC/MS/MS

	MeFOSAA	EtFOSAA	MeFOSE	EtFOSE
Sample ID	Analyte Found (ng/mL)	Analyte Found (ng/mL)	Analyte Found (ng/mL)	Analyte Found (ng/mL)
08130935 LW 12-5/LW 12-6 Sample 1	< 0.025[1]	< 0.025	< 0.025	< 0.025
08130935 LW 12-5/LW 12-6 Sample 1 Dup	< 0.025[1]	< 0.025	< 0.025	< 0.025
08130936 LW 12-5/LW 12-6 Sample 2	< 0.025	< 0.025	< 0.025	< 0.025
08130936 LW 12-5/LW 12-6 Sample 2 Dup	< 0.025	< 0.025	< 0.025	< 0.025
08130938 LW 12-5/LW 12-6 Sample 3	< 0.025	< 0.025	< 0.025	< 0.025
08130938 LW 12-5/LW 12-6 Sample 3 Dup	< 0.025	< 0.025	< 0.025	< 0.025
08130933 MG 17-3 Sample 4	< 0.025	< 0.025	< 0.025	< 0.025
08130933 MG 17-3 Sample 4 Dup	< 0.025	< 0.025	< 0.025	< 0.025
08130932 MG 17-3 Sample 5	< 0.025	< 0.025	< 0.025	< 0.025
08130932 MG 17-3 Sample 5 Dup	< 0.025	< 0.025	< 0.025	< 0.025
Trip Blank	< 0.025	< 0.025	< 0.025	< 0.025
08180951 MG11 Sample 6	< 0.025	< 0.025	< 0.025	< 0.025
08180951 MG11 Sample 6 Dup	< 0.025	< 0.025	< 0.025	< 0.025
08180948 MG11 Sample 7	< 0.025	< 0.025	< 0.025	< 0.025
08180948 MG11 Sample 7 Dup	< 0.025	< 0.025	< 0.025	< 0.025
08140928 LW 17-4/LW 17-5 Sample 8	< 0.025	< 0.025	< 0.025	< 0.025
08140928 LW 17-4/LW 17-5 Sample 8 Dup	< 0.025	< 0.025	< 0.025	< 0.025
08180949 MG11 Sample 9	< 0.025	< 0.025	< 0.025	< 0.025
08180949 MG11 Sample 9 Dup	< 0.025	< 0.025	< 0.025	< 0.025
08190950 MG11 Sample 10	< 0.025	< 0.025	< 0.025	< 0.025
08190950 MG11 Sample 10 Dup	< 0.025	< 0.025	< 0.025	< 0.025
08190945 LW13-16/LW 13-19 Sample 12	< 0.025[1]	< 0.025	< 0.025	< 0.025
08190945 LW13-16/LW 13-19 Sample 12 Dup	< 0.025[1]	< 0.025	< 0.025	< 0.025
1-CR388-0828-09 Sample 13	< 0.025	< 0.025	< 0.025	< 0.025
1-CR388-0828-09 Sample 13 Dup	< 0.025	< 0.025	< 0.025	< 0.025

[1] The Laboratory Matrix Spike recovery was outside the acceptance criteria of 70-130%.